

**Friday, 29 October 2021:**

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**«Asymptotics for the logarithm of the number of k-free solutions sets in Abelian group».**

*Abstract.* The set  $A_1 + \dots + A_k$  of subsets of the Abelian group  $G$  is k-free solutions, if  $x_1 + \dots + x_k = 0$  have not solution in the set  $A_1, \dots, A_k$ , where  $x_1 \in A_1, \dots, x_k \in A_k$ . Asymptotics for the logarithm of the number of k-free solutions sets in abelian groups is obtained.